

Title (en)

PRODUCTION METHOD FOR 1 AMINO CYCLOPROPANE CARBOXYLIC ACID NONHYDRATE

Title (de)

HERSTELLUNGSVERFAHREN FÜR 1-AMINO-CYCLOPROPAN-CARBONSÄURE-NONHYDRAT

Title (fr)

PROCÉDÉ DE FABRICATION D'UN ANHYDRATE D'ACIDE 1-AMINOCYCLOPROPANE CARBOXYLIQUE

Publication

**EP 3623360 A4 20210303 (EN)**

Application

**EP 18798285 A 20180502**

Priority

- JP 2017092615 A 20170508
- JP 2018017482 W 20180502

Abstract (en)

[origin: EP3623360A1] 1-Aminocyclopropanecarboxylic acid non-hydrate can be obtained bytreating 1-aminocyclopropanecarboxylic acid hydrochloride with a tertiary amine in the presence of a C<sub>3</sub>-C<sub>4</sub>alcohol and water, keeping the reaction mixture at 50°C or below,collecting the precipitated crystal of 1-aminocyclopropanecarboxylic acid 0.5 hydrate by filtration, and contacting the obtained crystal with a C<sub>1</sub>-C<sub>2</sub>alcohol.

IPC 8 full level

**C07C 227/40** (2006.01); **C07C 227/16** (2006.01); **C07C 227/18** (2006.01); **C07C 229/48** (2006.01)

CPC (source: EP IL KR US)

**C07C 227/16** (2013.01 - EP IL KR); **C07C 227/18** (2013.01 - EP IL US); **C07C 227/40** (2013.01 - EP IL); **C07C 227/42** (2013.01 - IL KR US); **C07C 229/48** (2013.01 - IL KR); **C07B 2200/13** (2013.01 - IL US); **C07C 2601/02** (2017.05 - EP IL)

C-Set (source: EP)

1. **C07C 227/16** + **C07C 229/48**
2. **C07C 227/40** + **C07C 229/48**
3. **C07C 227/18** + **C07C 229/48**

Citation (search report)

- [AD] US 4367344 A 19830104 - GALLENKAMP BERND [DE]
- [A] G. VALLE, ET AL.: "Crystallographic characterisation of conformation of 1-aminocyclopropane-1-carboxylic acid residue (Ac3c) in simple derivatives and peptides", INTERNATIONAL JOURNAL OF PEPTIDE AND PROTEIN RESEARCH, vol. 34, no. 1, July 1989 (1989-07-01), John Wiley & Sons, New York, NY, US, pages 56 - 65, XP055766635, ISSN: 0367-8377, DOI: 10.1111/j.1399-3011.1989.tb01009.x
- See also references of WO 2018207694A1

Cited by

US11828232B2; US11970975B2; US12006871B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 3623360 A1 20200318**; **EP 3623360 A4 20210303**; **EP 3623360 B1 20211229**; AR 111660 A1 20190807; AU 2018267359 A1 20191219; AU 2018267359 B2 20210708; BR 112019022427 A2 20200519; BR 112019022427 B1 20230110; CA 3063010 A1 20191202; CL 2019003162 A1 20200413; CN 110603243 A 20191220; CN 110603243 B 20220722; DK 3623360 T3 20220214; ES 2907431 T3 20220425; HU E058305 T2 20220728; IL 270409 B 20211201; JP 7009461 B2 20220125; JP WO2018207694 A1 20200312; KR 102550281 B1 20230630; KR 20200003135 A 20200108; MX 2019013200 A 20200120; NZ 759687 A 20240426; PE 20200235 A1 20200203; PL 3623360 T3 20220321; PT 3623360 T 20220207; SI 3623360 T1 20220429; TW 201900601 A 20190101; TW I741180 B 20211001; US 11014872 B1 20210525; US 2021139413 A1 20210513; WO 2018207694 A1 20181115; ZA 201907872 B 20210428

DOCDB simple family (application)

**EP 18798285 A 20180502**; AR P180101129 A 20180502; AU 2018267359 A 20180502; BR 112019022427 A 20180502; CA 3063010 A 20180502; CL 2019003162 A 20191104; CN 201880029898 A 20180502; DK 18798285 T 20180502; ES 18798285 T 20180502; HU E18798285 A 20180502; IL 27040919 A 20191104; JP 2018017482 W 20180502; JP 2019517591 A 20180502; KR 20197035527 A 20180502; MX 2019013200 A 20180502; NZ 75968718 A 20180502; PE 2019002288 A 20180502; PL 18798285 T 20180502; PT 18798285 T 20180502; SI 201830547 T 20180502; TW 107114868 A 20180502; US 201816611721 A 20180502; ZA 201907872 A 20191127